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(54) SURFACE PROTECTIVE AGENT

(57)Abstract:

PROBLEM TO BE SOLVED: To make a protective agent adsorb well to a solid phase surface and protect the solid phase surface without obstructing an immunoreaction by using the solid phase surface protective agent consisting of a water-soluble copolymer having a polyethylene glycol chain at a side chain for the immunoreaction.

SOLUTION: A water-soluble copolymer having a polyethylene glycol chain at a side chain is not specifically limited so long as it has efficiency to protect a solid phase surface used in an immunoreaction. However, a vinyl monomer with the polyethylene glycol chain of a molecular weight of 102-104 in a molecule is particularly preferred. Moreover, a water-insoluble monomer to be adsorbed to a hydrophobic surface is preferably one that has a highly hydrophobic sympathetic group. The water-soluble copolymer consisting of the vinyl monomer having the polyethylene glycol in a molecule and the water-insoluble monomer is particularly preferably a copolymerized one with a weight ratio of 50-99:1-50. A solvent for the copolymerization is an alcohol such as methanol or the like, an organic solvent such as benzene or the like, or the water.

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